

| Facility name: NATIONAL LEAD TARA CORP |
|---|
| Location: 16th & Cleveland Blud. GRANITE City, IL 62040 |
| EPA Region: |
| Person(s) in charge of the facility: Southern District of the Illinois EPA |
| (618) 345-4606 |
| \ |
| Name of Reviewer: C.E. Mays III Date: 5/25/83 General description of the facility: |
| (For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.) |
| Site is not qualified for MPL become site as internum |
| Status! |
| Air route combined the St Louis Lead Recyclars site and |
| the Taracorp site because there is no way to |
| PINPOINT OIR pollution from one site of the other site. St lour |
| Lead Recyclers reclaiming Tanacorp woste pile. Tanacorp |
| 15 a Secondary lead Smelter which produces sheet lead, solder, shot sun lead pullets, lead wool, seaundary lead insort |
| Scores: SN = 34.4 1/5 == (.17 5 == 6.55s = 58.85) Old butking cases. Slag. |
| SFE = 0 SDC = 50.0 and make goes to the wask pile. Study 1: disposed of all on affiolish landfill. |
| SDC = 50.0 disposed of all an afficient landfill. |

FIGURE 1 **HRS COVER SHEET**

| | Ground Water Route Work Shee | et | | | | | | | |
|---|--|-----------------|-------|---------------|-------------------|--|--|--|--|
| Rating Factor | Assigned Value (Circle One) | Multi- plier | Score | Max. Score | Ref. (Section) | | | | |
| 1 Observed Release | 0 45 | 1 | 45 | 45 | 3.1 | | | | |
| If observed release is g | • | , | | | | | | | |
| Route Characteristics Depth to Aquifer of | 0 1 2 3 | 2 | | 6 | 3.2 | | | | |
| Concern Net Precipitation Permeability of the | 0 1 2 3 0 1 2 3 | 1 | | 3 3 | | | | | |
| Unsaturated Zone Physical State | 0 1 2 3 | 1 | | 3 | | | | | |
| · | Total Route Characteristics Score | | | 15 | | | | | |
| 3 Containment | 0 1 2 3 | 1 | | 3 | 3.3 | | | | |
| Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity | 0 3 6 9 12 15 (18) 0 1 2 3 4 5 6 7 (8) |) 1 | 18 | 18 8 | 3.4 | | | | |
| | Total Waste Characteristics Score | | 26 | 26 | | | | | |
| Targets Ground Water Use Distance to Nearest Well/Population Served | 0 1 2 3 0 4 6 8 10 12 16 18 20 24 30 32 35 40 | 3 1 | 30 | 9 40 | 3.5 | | | | |
| [B] | Total Targets Score | | 3 | 49 | | | | | |
| · — | y 1 x 4 x 5 2 x 3 x 4 x 5 | | | \$7,330 | | | | | |
| Divide line 6 by 57,330 and multiply by 100 Sgw = | | | | | | | | | |

FIGURE 2
GROUND WATER ROUTE WORK SHEET

| | Surface Water Route Work Sheet | i | | | |
|--|--|-------------------|---------|---------------|-------------------|
| Rating Factor | Assigned Value (Circle One) | Mutti- plier | Score | Max. Score | Ref. (Section) |
| 1 Observed Release | (1) 45 | 1 | 0 | 45 | 4.1 |
| | en a value of 45, proceed to line 4. en a value of 0, proceed to line 2. | | | | |
| Route Characteristics Facility Slope and Interv | ening (0) 1 2 3 | 1 | ٥ | 3 | 4.2 |
| Terrain 1-yr. 24-hr. Rainfall Distance to Nearest Surf | 0 1 2 3 face 0 0 2 3 | 1 2 | 2 2 | 3 6 | |
| Water Physical State | 0 1 ②3 | 1 | ح | 3 | |
| | Total Route Characteristics Score | | 6 | 15 | |
| 3 Containment | 0 1 (2 3 | 1 | 3 | 3 | 4.3 |
| Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity | 0 3 6 9 12 15 (18) 0 1 2 3 4 5 6 7 (8) | 1 | 18 3 | 18 8 | 4.4 |
| | Total Waste Characteristics Score | | 26 | 26 | |
| Targets Surface Water Use Distance to a Sensitive Environment Population Served/Distan | | 3 2 1 | 900 | 9 6 40 | 4.5 |
| to Water Intake Downstream | 12 16 18 20 24 30 32 35 40 | | | | |
| | Total Targets Score | | 9 | 55 | |
| | 1 x 4 x 5 2 x 3 x 4 x 5 | | | 64,350 | |
| Divide line 6 by 64,350 | and multiply by 100 | S _{sw} = | | | |

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

$$6 \times 3 \times 76 \times 9 = 4212$$

$$\frac{4212}{64350} \times 100 = 6.55$$

| Air Route Work Sheet | | | | | | | | | | |
|----------------------|---|----------|-------------------------------|--------------------|-----------------|---------------|---------------|-------------------|--|--|
| | Rating Factor | | Assigne (Circle | d Value e One) | Multi- plier | Score | Max. Score | Ref. (Section) | | |
| 1 | Observed Release | | 0 | 45 | 1 | 45 | 45 | 5.1 | | |
| | Date and Location: | | | | · | | | ·· ··· | | |
| | Sampling Protocol: | | | | | | | | | |
| | If line 1 is 0, the 5 if line 1 is 45, then | - | Enter on line and to line 2 | | | | | | | |
| 2 | Waste Characteristics Reactivity and | | () 1 2 | 3 | 1 | 0 | 3 | 5.2 | | |
| | Incompatibility Toxicity Hazardous Waste Quantity | | 0 1 2 0 1 2 | ③ 3 4 5 6 7 | 3 1 | 9 | 9 8 | | | |
| | | | | | | | 7 | | | |
| | | | otal Waste Cha | racteristics Score | e | 17 | 20 | | | |
| 3 | Targets Population Within 4-Mile Radius Distance to Sensitive | | 0 9 12 21 29 27 (1) 1 2 | 30 | 1 2 | 24 | 30 6 | 5.3 | | |
| | Environment Land Use | | 0 1 2 | | 1 | 3 | 3 | | | |
| | | | | | | | | | | |
| | | | ··· | | | 1 | | | | |
| | | | Total Tar | gets Score | | 27 | 39 | | | |
| 4 | Multiply 1 x 2 > | (3 | | | | <u> </u> | 35,100 | | | |
| 5 | Divide line 4 by 35 | ,100 and | 3 multiply by 1 | 00 | Sa = | | | | | |

FIGURE 9 AIR ROUTE WORK SHEET

$$45 \times 17 \times 27 = 20655$$

$$\frac{20655}{35100} \times 100 = 58.85$$

| | s | S ² |
|---|-------|----------------|
| Groundwater Route Score (Sgw) | 6.12 | 37.45 |
| Surface Water Route Score (S _{SW}) | 6.55 | 42.90 |
| Air Route Score (Sa) | 58.85 | 3463.32 |
| $S_{gw}^2 + S_{sw}^2 + S_a^2$ | | 3543.67 |
| $\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$ | | 59. 53 |
| $\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$ | | 34.41 |

FIGURE 10 WORKSHEET FOR COMPUTING $\mathbf{S}_{\mathbf{M}}$

Not documented as a hazard by fire marshall!

| cteristics | 1 | | rcle | | == | | | | plier | | | (Section |
|-----------------------|---|--|--|--|--|--|--|--|--|--|---|---|
| | 0 | | | | | 3 | | | 1 | | Score 3 | 7.1 |
| | 0 | | 2 2 | | | | | | 1 1 1 | | 3 3 3 | 7.2 |
| lity Wast e | | 1 1 | 2 | 3 | 4 | 5 | 6 7 | 8 | 1 1 | | 3 8 | |
| | Total Was | ste | Cha | ırac | teri | stics | Sco | e | | | 20 | |
| Nearest | 0 | 1 | 2 | 3 | 4 | 5 | | | 1 | | 5 | 7.3 |
| Nearest | 0 | 1 | 2 | 3 | | | | | 1 | | 3 | |
| | 0 | | | | | | | | 1 | | 3 | |
| | | | | | 4 | 5 | | | 1 | | 3 5 | |
| ithin | 0 | 1 | 2 | 3 | 4 | 5 | | | 1 | | 5 | |
| | | | | | | | | | | | | |
| | То | tal ' | Tar | gets | s So | ore | | | | | 24 | |
| x 2 x 3 | | | | | | | | | | | 1,440 | |
| | Nearest Sensitive Int Within Itus Vithin Itus X 2 x 3 | Nearest 0 Nearest 0 Sensitive 0 nt 0 Within 0 ius fithin ius $x \ge x \ge x \le 3$ | Nearest 0 1 Nearest 0 1 Sensitive 0 1 nt 0 1 Within 0 1 ius fithin 0 1 ius Total | Nearest 0 1 2 Nearest 0 1 2 Sensitive 0 1 2 Nithin 0 1 2 ius /ithin 0 1 2 ius // Total Targ | Nearest 0 1 2 3 Nearest 0 1 2 3 Sensitive 0 1 2 3 nt 0 1 2 3 Within 0 1 2 3 itus itus Total Targets | Nearest 0 1 2 3 4 Nearest 0 1 2 3 Sensitive 0 1 2 3 Nithin 0 1 2 3 4 ius fithin 0 1 2 3 4 ius Total Targets Sc x 2 x 3 | Nearest 0 1 2 3 4 5 Nearest 0 1 2 3 Sensitive 0 1 2 3 Nithin 0 1 2 3 4 5 itus (ithin 0 1 2 3 4 5 itus Total Targets Score | Nearest 0 1 2 3 4 5 Nearest 0 1 2 3 Sensitive 0 1 2 3 Nithin 0 1 2 3 4 5 ius fithin 0 1 2 3 4 5 ius Total Targets Score | Nearest 0 1 2 3 Sensitive 0 1 2 3 nt 0 1 2 3 Within 0 1 2 3 4 5 ius Within 0 1 2 3 4 5 ius Total Targets Score x 2 x 3 | Nearest 0 1 2 3 4 5 1 Nearest 0 1 2 3 1 Sensitive 0 1 2 3 1 Nithin 0 1 2 3 4 5 1 ius fithin 0 1 2 3 4 5 1 ius Total Targets Score | Nearest 0 1 2 3 4 5 1 Nearest 0 1 2 3 1 Sensitive 0 1 2 3 1 Mithin 0 1 2 3 4 5 1 ius Mithin 0 1 2 3 4 5 1 ius Total Targets Score x 2 x 3 | Nearest 0 1 2 3 4 5 1 5 Nearest 0 1 2 3 1 3 Sensitive 0 1 2 3 1 3 Mithin 0 1 2 3 4 5 1 5 ius fithin 0 1 2 3 4 5 1 5 ius fithin 2 1 2 3 4 5 1 5 ius 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 |

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

| | | Direct Contact Work Sheet | | | | |
|---|--|--|-----------------|-------|---------------|-------------------|
| | Rating Factor | Assigned Value (Circle One) | Multi- plier | Score | Max. Score | Ref. (Section) |
| 1 | Observed Incident | 45 | 1 | 0 | 45 | 8.1 |
| | If line 1 is 45, proceed If line 1 is 0, proceed to | | | | | |
| 2 | Accessibility | 0 1 2 1 | 1 | W | 3 | 8.2 |
| 3 | Containment | 0 (15) Uncovered Pile | 1 | 15 | 15 | 8.3 |
| 4 | Waste Characteristics Toxicity | 0 1 23 Lead | 5 | 15 | 15 | 8.4 |
| 5 | Targets Population Within a 1-Mile Radius Distance to a Critical Habitat | 3,001 to 10 000 0 1 2 3 4 5 0 1 2 3 | 4 | 9 0 | 20 | 8.5 |
| _ | If line 1 is 45, multiply If line 1 is 0, multiply 2 | Total Targets Score 1 × 4 × 5 2 × 3 × 4 × 5 | | .10 | 32 21,600 | |
| 7 | Divide line 6 by 21,600 a | and multiply by 100 | SDC - | | | |

FIGURE 12 DIRECT CONTACT WORK SHEET

3×15×15×16 =10860